

NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY

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ABSTRACT OF THE DISCLOSURE

A method of fabricating a porous film of a non-aqueous electrolyte secondary battery and a method of 10 fabricating the electrode of a non-aqueous electrolyte secondary battery by which a highly safe and inexpensive non-aqueous electrolyte secondary battery can be produced, and a highly safe and inexpensive non-aqueous electrolyte secondary battery are disclosed. The method 15 of fabricating the electrode of a non-aqueous electrolyte secondary battery according to the invention comprises the steps of forming an electrode plate providing a positive electrode or a negative electrode of a non-aqueous electrolyte secondary battery and forming and 20 attaching a porous film of a polymer material on the surface of the electrode plate thereby to produce the electrode plate having the porous film on the surface thereof. The step of attaching a porous film includes the step of modifying at least a portion of the porous 25 film by bonding a predetermined substituent different from the group contained in the polymer material to the carbon atoms of the backbone chain of the polymer material through two or more successive carbon atoms in the predetermined substituent after the porous film forming step.